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ABSTRACT

Disclosed is a method of characterizing a coded object having a plurality of regions. A luminosity value of a first region of the coded object is compared to a luminosity value of a second region of the coded object, wherein the second region's color is known. The first region's color is then determined based on the comparison of the first and second region's luminosity values. In one aspect, the second region's color is known to be white. It is determined that the first region's color is white when the first region's luminosity value is not less than the second region's luminosity value by more than a predetermined constant k , and it is determined that the first region's color is black when the first region's luminosity value is less than the second region's luminosity value by more than a predetermined value. Various coded object configurations are also disclosed.